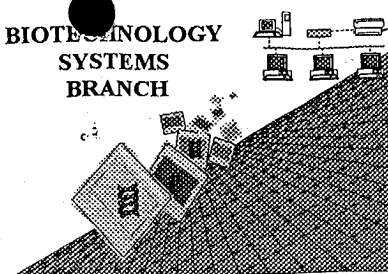


RAW SEQUENCE LISTING **ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/780,113A

Source: 1645

Date Processed by STIC: 5/30/2001

RECEIVED

JUN 12 2001

TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

RECEIVED

JUN 12 2001

TECH CENTER 1600/2900

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/780,113A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line **not** exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
- 4 Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. Please ensure your subsequent submission is saved in **ASCII text**.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0 A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7 Skipped Sequences Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped
- Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence.
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
 In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
- 10 Invalid <213> Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or
 Response scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or
 is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or
 "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0 Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
 "bug" resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
 listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

1645

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/780,113A

DATE: 05/30/2001

TIME: 11:01:31

Input Set : A:\506812000120.txt

Output Set: C:\CRF3\05302001\I780113A.raw

Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: TYRRELL, JOHN V.
 4 BERGQUIST, PATRICIA R.
 5 BERGQUIST, PETER L.
 6 SCHOLIN, CHRISTOPHER A.
 8 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DETECTING RAPIDOPHYTES
 10 <130> FILE REFERENCE: 50681200121
 12 <140> CURRENT APPLICATION NUMBER: 09/780,113A
 13 <141> CURRENT FILING DATE: 2001-02-09
 15 <150> PRIOR APPLICATION NUMBER: 09/596,136
 W--> 16 60/141,362 add <1507
 18 <151> PRIOR FILING DATE: 2000-06-16
 W--> 19 1999-06-28 <1517
 21 <160> NUMBER OF SEQ ID NOS: 30
 23 <170> SOFTWARE: PatentIn Ver. 2.1

do not separate application
 numbers and their filing
 dates - group them
 together

e.g. <1507 60/141,362
 <1517 1999-06-28

ERRORED SEQUENCES

259 <210> SEQ ID NO: 20
 260 <211> LENGTH: 25
 261 <212> TYPE: DNA
 262 <213> ORGANISM: Artificial Sequence
 264 <220> FEATURE:
 265 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificial
 probe
 E--> 267 <400> SEQUENCE: (25) 20
 C--> 268 tcattctttcc ctcaagggtac ttgtt 25

oligonucleotide

olignucleotide

(global error)

when using new
 sequence rules
 format, use
lower-case

letters for all
 bases (please
 correct
 this global error)

All following page for more errors

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/780,113A

DATE: 06/08/2001

TIME: 18:21:18

Input Set : A:\Pto.amc

Output Set: N:\CRF3\06082001\I780113A.raw

295 <210> SEQ ID NO: 23
 296 <211> LENGTH: 23
 297 <212> TYPE: DNA
 298 <213> ORGANISM: Artificial Sequence
 300 <220> FEATURE:
 301 <223> OTHER INFORMATION: Description of -Artificial Sequence: Artificial
 303 <400> SEQUENCE: 23
 C--> 304 agagtagctg agcagcgcac tct (use lower-case letters)
 307 <210> SEQ ID NO: 24
 308 <211> LENGTH: 687
 309 <212> TYPE: DNA
 310 <213> ORGANISM: Chattonella antiqua
 312 <400> SEQUENCE: 24
 C--> 313 ttcttgaagc ggaggaaaag aaccaactcg gattccctag taacggcgag tgaagcggga 60
 314 agagctcatg ttgtaaatct ggatgaggat tcctcgctcc gaattgtagt cttagagatgc 120
 315 gtgctcagct actctccagg gctaagtcctg tttgtgaaag acagcatcat ggacgggtgat 180
 316 aatccggttc ttgccttgga tgttgtagcg tcttgagccg tcctcaacga gtcgagttgc 240
 317 ttgggattgc agctctaagc ggggtgtaaa ttccatctaa agctaaatat tgggtggaga 300
 318 ccgatagcga acaagtaccg tgagggaaag atgaaaagaa ctttgaaaag agagttaaat 360
 319 agtacctgaa actgctgaaa gggaagcgaa tgaagtcagt gttgctcttt gttctctgca 420
 320 tcctccctgc ggggattgtg tatcgaggac tttgagcttg tcaggatgag ttctctgccg 480
 321 cgggatatgg tttgtgagct ggatgcttct gctgaactca ctctctctgt cgtggcttgg 540
 322 actgagggtc catcttgccg ttgctgctt gttactctcc tgttgctgtt tctgtcctac 600
 323 tgcttgacgt gttcggttgc agtgattgga ctgtgcaagt tatgcatgca aggtcaggat 660
 324 cctgacgaat ggctttatta acccgaa 687
 327 <210> SEQ ID NO: 25
 328 <211> LENGTH: 681
 329 <212> TYPE: DNA
 330 <213> ORGANISM: Chattonella subsalsa
 332 <400> SEQUENCE: 25
 C--> 333 gcgaggaaaa agaaccaact cggattccct agtaacggcg agtgaagcgg gaagagctca 60
 334 tgttgtaaat ctggatgagg gttcctcgct ccgaattgta gtctagagat gcgtgctcag 120
 335 ctactctcca gggctaagtc tgtttgtgaa agacagtgtc atggacggtg ataaccgggt 180
 336 tcttgccctg gatgttgtag cgttttgagc cgtcctcaac gagtcgagtt gcttgggatt 240
 337 gcagctctaa gtgggtggtg aattccatct aaagctaaat attggtggga gaccgatagc 300
 338 gaacaagtac cgtgaggga agatgaaaag aactttgaaa agagagttaa atagtacctg 360
 339 aaactgctga aagggaagcg aatgaagtca gtgttgctct ttgtgctctg catcctccct 420
 340 gcggggattg tgtatcgagg actttgagct tgtcaggatg agttctctgc cgcgggatat 480
 341 gttttgtatg ctggatgctt tttgcggaac atacattctc tgtcgtggct tggactgagg 540
 342 ttccatcttg ccgttgccg tgcgttcctc tcccgttgct gtctctgttc tactgcttgc 600
 343 agtgctcagt tgcagtagtt ggactgtgcg tattatgcat gcaaggctcag gatcctgacg 660
 344 aatggcttta ttcacccgca a 681
 347 <210> SEQ ID NO: 26
 348 <211> LENGTH: 703
 349 <212> TYPE: DNA
 350 <213> ORGANISM: Fibrocapsa japonica
 352 <400> SEQUENCE: 26
 C--> 353 cagaggaaaa gaaacaactc ggattcccta gtaacggcga gtgaagcggg aacagctcat 60
 354 gatgtaaate tgggtgacgt ttcgttacc cgaattgtag tctacagaag cgtgtccagc 120

invalid - give source
 of genetic material.
 see circled portion of Item 11 on Enov summary sheet.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/780,113A

DATE: 05/30/2001

TIME: 11:01:32

Input Set : A:\506812000120.txt

Output Set: C:\CRF3\05302001\I780113A.raw

L:16 M:259 W: Allowed number of lines exceeded, <150> PRIOR APPLICATION NUMBER:
L:19 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
L:37 M:112 C: (48) String data converted to lower case,
L:52 M:112 C: (48) String data converted to lower case,
L:64 M:112 C: (48) String data converted to lower case,
L:76 M:112 C: (48) String data converted to lower case,
L:88 M:112 C: (48) String data converted to lower case,
L:100 M:112 C: (48) String data converted to lower case,
L:112 M:112 C: (48) String data converted to lower case,
L:124 M:112 C: (48) String data converted to lower case,
L:136 M:112 C: (48) String data converted to lower case,
L:148 M:112 C: (48) String data converted to lower case,
L:160 M:112 C: (48) String data converted to lower case,
L:172 M:112 C: (48) String data converted to lower case,
L:184 M:112 C: (48) String data converted to lower case,
L:196 M:112 C: (48) String data converted to lower case,
L:208 M:112 C: (48) String data converted to lower case,
L:220 M:112 C: (48) String data converted to lower case,
L:232 M:112 C: (48) String data converted to lower case,
L:244 M:112 C: (48) String data converted to lower case,
L:256 M:112 C: (48) String data converted to lower case,
L:267 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:20 differs:25
L:268 M:112 C: (48) String data converted to lower case,
L:280 M:112 C: (48) String data converted to lower case,
L:292 M:112 C: (48) String data converted to lower case,
L:304 M:112 C: (48) String data converted to lower case,
L:313 M:112 C: (48) String data converted to lower case,
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L:315 M:112 C: (48) String data converted to lower case,
L:316 M:112 C: (48) String data converted to lower case,
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L:319 M:112 C: (48) String data converted to lower case,
L:320 M:112 C: (48) String data converted to lower case,
L:321 M:112 C: (48) String data converted to lower case,
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L:333 M:112 C: (48) String data converted to lower case,
L:334 M:112 C: (48) String data converted to lower case,
L:335 M:112 C: (48) String data converted to lower case,
L:336 M:112 C: (48) String data converted to lower case,
L:337 M:112 C: (48) String data converted to lower case,
L:338 M:112 C: (48) String data converted to lower case,
L:339 M:112 C: (48) String data converted to lower case,
L:340 M:112 C: (48) String data converted to lower case,
L:341 M:112 C: (48) String data converted to lower case,
L:342 M:112 C: (48) String data converted to lower case,

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/780,113A

DATE: 05/30/2001

TIME: 11:01:32

Input Set : A:\506812000120.txt

Output Set: C:\CRF3\05302001\I780113A.raw

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L:344 M:112 C: (48) String data converted to lower case,
L:353 M:112 C: (48) String data converted to lower case,
L:354 M:112 C: (48) String data converted to lower case,
L:355 M:112 C: (48) String data converted to lower case,
L:356 M:112 C: (48) String data converted to lower case,
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L:358 M:112 C: (48) String data converted to lower case,
L:359 M:112 C: (48) String data converted to lower case,
L:360 M:112 C: (48) String data converted to lower case,
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L:402 M:112 C: (48) String data converted to lower case,
L:403 M:112 C: (48) String data converted to lower case,
L:404 M:112 C: (48) String data converted to lower case,
L:418 M:112 C: (48) String data converted to lower case,
L:430 M:112 C: (48) String data converted to lower case,